

G.F. Filley, Improved Stove Back Plate
 PATENTED
 DEC 17 1867

72179

Fig. 1.

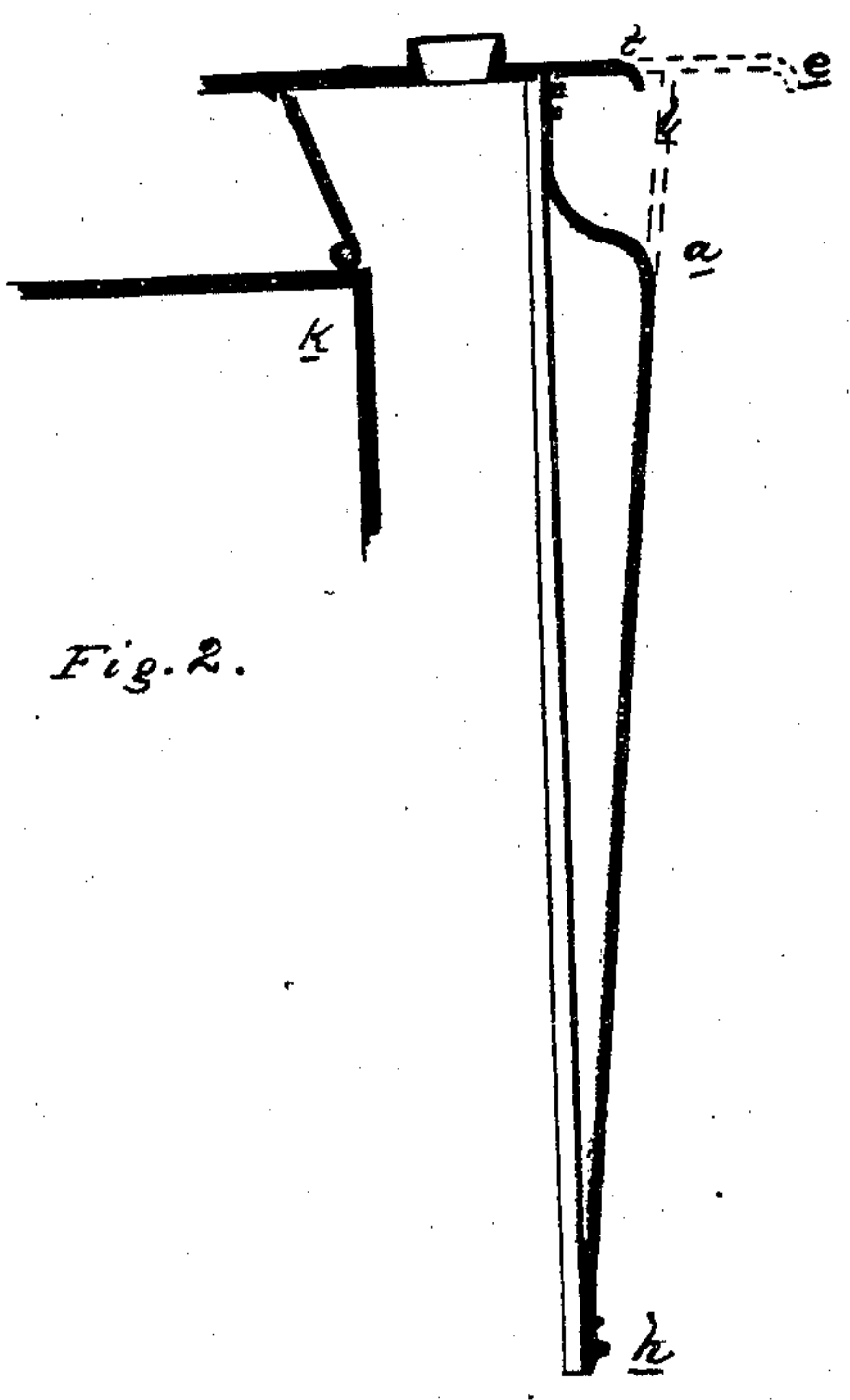
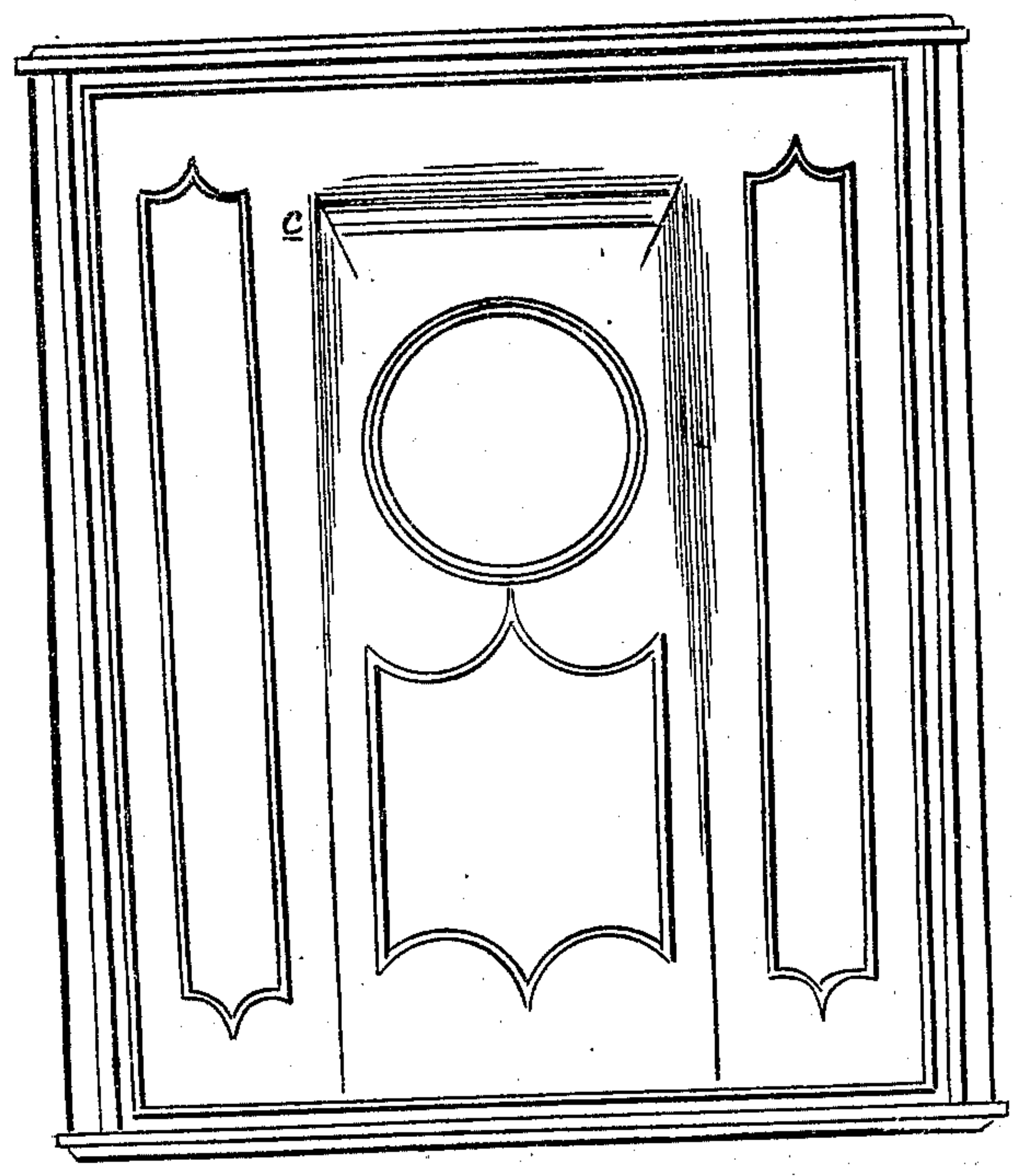


Fig. 2.

Witnesses:

Sam'l. S. Boyd
Henry T. Carter

Inventor:

Giles F. Filley

United States Patent Office.

GILES F. FILLEY, OF ST. LOUIS, MISSOURI.

Letters Patent No. 72,179, dated December 17, 1867.

IMPROVEMENT IN STOVE-BACK PLATE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GILES F. FILLEY, of the city and county of St. Louis, in the State of Missouri, have invented a new and useful Improved Stove-Back Plate, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, constituting a part of this specification, in which—

Figure 1 represents a back view of my plate.

Figure 2 represents a sectional elevation of same.

Similar letters indicate like parts.

My invention is designed to secure economy in the manufacture of and greater durability in back plates of stoves.

In my invention the line of the projection in the back plate necessary to give room for the increased draught-flue, is curved at the point *a*, fig. 2, instead of being continued in the direction indicated by the dotted line *b*, as has heretofore been customary. By this construction the back plate is made at less expense, because it can be cast in a straight flask, instead of requiring a curved one, which renders the moulding much more expensive. The plate, instead of being liable to break at the point *c*, as is frequently the case with those of the old form, is rendered much stronger at this point by my method of construction. My plate is not so liable to warp as are others. The top plate of the stove, instead of being extended as shown by the dotted line *e*, as is necessary when the back plate takes the direction of the dotted line *b*, is brought only to the point *f*, thereby saving a considerable amount of iron and labor. Another advantage is the greater convenience and safety in transportation, since the stove, instead of resting upon the points *e* and *h*, as it obviously would when the back plate is formed in the old way, lies evenly upon the back, and thereby prevents any straining, besides occupying less room. This curvature at *a* does not injure the draught of the stove, since it is evident from inspection of fig. 2, that there is sufficient space between the back plate and the oven at *k*, to give the requisite draught.

I do not claim as my invention the projection in the back plate, but

What I do claim, and desire to secure by Letters Patent, is—

The method of forming the draught-flue projection in the back plate of stoves, with a curvature, in the manner substantially as shown and specified.

GILES F. FILLEY.

Witnesses:

SAM'L. S. BOYD,

FREDERICK WM. WIESEHAHN.